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OM protein - protein search, using sw model

Run on: August 28, 2002, 17:37:38 ; Search time 305.46 Seconds  
(without alignments)  
286.922 Million cell updates/sec

Title: US-09-502-984B-37  
Perfect score: 1284  
Sequence: 1 KRESKALLANGPELLECF.....RKNERLEEVERLKLQVGER 249

Scoring table: BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 3502263 seqs, 351980561 residues

Total number of hits satisfying chosen parameters: 3502263

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Pending\_Patents\_AA\_Main:\*  
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26: /cgn2\_6/ptodata/2/paa/US60\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description      |
|------------|-------|-------------|--------|----|------------------|
| 1          | 1171  | 91.2        | 676    | 18 | US-09-452-565-1  |
| 2          | 1098  | 85.5        | 211    | 19 | US-09-502-984-6  |
| 3          | 1080  | 84.1        | 211    | 19 | US-09-502-984-5  |
| 4          | 1078  | 84.0        | 211    | 19 | US-09-502-984-4  |
| 5          | 1075  | 83.7        | 211    | 19 | US-09-502-984-9  |
| 6          | 1073  | 83.6        | 211    | 19 | US-09-502-984-13 |
| 7          | 1073  | 83.6        | 211    | 19 | US-09-502-984-14 |

|    |        |      |     |    |                      |                   |
|----|--------|------|-----|----|----------------------|-------------------|
| 8  | 1073   | 83.6 | 211 | 19 | US-09-502-984-15     | Sequence 15, Appl |
| 9  | 1070   | 83.3 | 211 | 19 | US-09-502-984-7      | Sequence 7, Appl  |
| 10 | 1070   | 83.3 | 211 | 19 | US-09-502-984-17     | Sequence 17, Appl |
| 11 | 1066   | 83.0 | 211 | 19 | US-09-502-984-16     | Sequence 16, Appl |
| 12 | 1064   | 82.9 | 211 | 19 | US-09-502-984-11     | Sequence 11, Appl |
| 13 | 1061   | 82.6 | 211 | 19 | US-09-502-984-12     | Sequence 12, Appl |
| 14 | 1060   | 82.6 | 211 | 19 | US-09-502-984-2      | Sequence 2, Appl  |
| 15 | 1060   | 82.6 | 211 | 19 | US-09-502-984-10     | Sequence 10, Appl |
| 16 | 1060   | 82.6 | 225 | 17 | US-09-502-984-5      | Sequence 1, Appl  |
| 17 | 1060   | 82.6 | 438 | 17 | US-09-339-888-1      | Sequence 5, Appl  |
| 18 | 1060   | 82.6 | 488 | 8  | US-08-474-673-2      | Sequence 2, Appl  |
| 19 | 1060   | 82.6 | 488 | 13 | US-08-960-733-2      | Sequence 2, Appl  |
| 20 | 1059.5 | 82.5 | 212 | 19 | US-09-502-984-3      | Sequence 3, Appl  |
| 21 | 1057   | 82.3 | 220 | 18 | US-09-452-565-6      | Sequence 6, Appl  |
| 22 | 1057   | 82.3 | 268 | 18 | US-09-452-565-3      | Sequence 3, Appl  |
| 23 | 1053   | 82.0 | 211 | 19 | US-09-502-984-8      | Sequence 8, Appl  |
| 24 | 1053   | 82.0 | 508 | 14 | US-09-016-159-5      | Sequence 5, Appl  |
| 25 | 1053   | 82.0 | 508 | 14 | US-09-058-429-5      | Sequence 5, Appl  |
| 26 | 1052   | 81.9 | 438 | 17 | US-09-339-838-7      | Sequence 7, Appl  |
| 27 | 1048   | 81.6 | 211 | 19 | US-09-502-984-18     | Sequence 18, Appl |
| 28 | 1039   | 80.9 | 211 | 19 | US-09-502-984-19     | Sequence 19, Appl |
| 29 | 1034   | 80.5 | 211 | 19 | US-09-502-984-20     | Sequence 20, Appl |
| 30 | 1025   | 79.8 | 211 | 19 | US-09-502-984-21     | Sequence 21, Appl |
| 31 | 1025   | 79.8 | 211 | 19 | US-09-502-984-24     | Sequence 24, Appl |
| 32 | 1024   | 79.8 | 211 | 19 | US-09-502-984-25     | Sequence 25, Appl |
| 33 | 1022   | 79.6 | 211 | 19 | US-09-502-984-23     | Sequence 23, Appl |
| 34 | 1020   | 79.4 | 211 | 19 | US-09-502-984-22     | Sequence 22, Appl |
| 35 | 1020   | 79.4 | 211 | 19 | US-09-502-984-26     | Sequence 26, Appl |
| 36 | 1019   | 79.4 | 211 | 19 | US-09-502-984-28     | Sequence 28, Appl |
| 37 | 1009   | 78.6 | 211 | 19 | US-09-502-984-27     | Sequence 27, Appl |
| 38 | 997    | 77.6 | 211 | 19 | US-09-502-984-29     | Sequence 29, Appl |
| 39 | 973    | 36.8 | 165 | 1  | PCT-US01-14827-13860 | Sequence 13860, A |
| 40 | 394    | 30.7 | 80  | 26 | US-60-160-202-3517   | Sequence 3517, Ap |
| 41 | 260    | 20.2 | 53  | 26 | US-60-160-202-4200   | Sequence 4200, Ap |
| 42 | 244    | 19.0 | 54  | 26 | US-60-160-202-2419   | Sequence 2419, Ap |
| 43 | 173    | 13.5 | 50  | 26 | US-60-182-094-1197   | Sequence 1197, Ap |
| 44 | 168    | 13.1 | 56  | 21 | US-09-757-027-7110   | Sequence 710, App |
| 45 | 167.5  | 13.0 | 117 | 16 | US-09-206-647-3      | Sequence 3, Appl  |

#### ALIGNMENTS

RESULT 1  
US-09-452-565-1  
; Sequence 1, Application US/09452565  
; GENERAL INFORMATION:  
; APPLICANT: Anderson, Stephen F.  
; APPLICANT: Nash, Huw M.  
; APPLICANT: Pelsch, Jason S.  
; TITLE OF INVENTION: ERYTHROPOIETIN RECEPTOR CHIMERA  
; FILE REFERENCE: 10845/011001  
; CURRENT APPLICATION NUMBER: US/09/452,565  
; CURRENT FILING DATE: 1999-12-01  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 676  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; NAME/KEY: -  
; OTHER INFORMATION: fusion protein including erythropoietin receptor extracellular  
; OTHER INFORMATION: domain, maltose binding proteins, linker, and GCN4 leucine  
; OTHER INFORMATION: zipper domain  
US-09-452-565-1

Query Match 91.2%; Score 1171; DB 18; Length 676;  
Best Local Similarity 89.2%; Pred. No. 4.5e-109;  
Matches 222; Conservative 16; Mismatches 11; Indels 0; Gaps 0;

0Y 1 KRESKALLANGPELLECFERLEDLVCFEEAASAGVGPNGFSPFLDEDPKICRL 60

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Db 428 KFEKSAALLAARGPEELCTERLEEDLYCFEEAASAGVPGNFSFOLEDEPMKLCRL 487
QY 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVVLDPVGLVA 120
Db 488 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVVLDPVGLVA 547
QY 121 RLADSGHVIVIRMLPPPEPTMTSHIRELDISAGNGAGSVQVRELLEGRTCYLSNLGR 180
Db 548 RLADSGHVIVIRMLPPPEPTMTSHIREVDSAGNGAGSVQVRELLEGRTCYLSNLGR 607
QY 181 TRITIAVRAMAPESPFGFWSAMSEPVSLTGGGSMELKLEOKVLELKNRLEEVE 240
Db 608 TRITIAVRAMAPESPFGFWSAMSEPVSLTGGGSMELKLEOKVLELKNRLEEVE 667
QY 241 RLKOLVGR 249
Db 668 RLKOLVGR 676
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RESULT 2
US-09-502-984-6
; Sequence 6, Application US/09502984
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 6
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-6
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Query Match 85.5%; Score 1098; DB 19; Length 211;
Best Local Similarity 100.0%; Pred. No. 2.1e-102;
Matches 211; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KFEKSAALLAARGPEELCTERLEEDLYCFEEAASAGVPGNFSFOLEDEPMKLCRL 60
Db 1 KFEKSAALLAARGPEELCTERLEEDLYCFEEAASAGVPGNFSFOLEDEPMKLCRL 60
QY 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVVLDPVGLVA 120
Db 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVVLDPVGLVA 120
QY 121 RLADSGHVIVIRMLPPPEPTMTSHIRELDISAGNGAGSVQVRELLEGRTCYLSNLGR 180
Db 121 RLADSGHVIVIRMLPPPEPTMTSHIRELDISAGNGAGSVQVRELLEGRTCYLSNLGR 180
QY 181 TRITIAVRAMAPESPFGFWSAMSEPVSLT 211
Db 181 TRITIAVRAMAPESPFGFWSAMSEPVSLT 211
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RESULT 3
US-09-502-984-5
; Sequence 5, Application US/09502984
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984
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; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 5
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-5
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Query Match 84.1%; Score 1080; DB 19; Length 211;
Best Local Similarity 97.2%; Pred. No. 1.4e-100;
Matches 205; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1 KFEKSAALLAARGPEELCTERLEEDLYCFEEAASAGVPGNFSFOLEDEPMKLCRL 60
Db 1 KFEKSAALLAARGPEELCTERLEEDLYCFEEAASAGVPGNFSFOLEDEPMKLCRL 60
QY 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVVLDPVGLVA 120
Db 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVVLDPVGLVA 120
QY 121 RLADSGHVIVIRMLPPPEPTMTSHIRELDISAGNGAGSVQVRELLEGRTCYLSNLGR 180
Db 121 RLADSGHVIVIRMLPPPEPTMTSHIRELDISAGNGAGSVQVRELLEGRTCYLSNLGR 180
QY 181 TRITIAVRAMAPESPFGFWSAMSEPVSLT 211
Db 181 TRITIAVRAMAPESPFGFWSAMSEPVSLT 211
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RESULT 4
US-09-502-984-4
; Sequence 4, Application US/09502984
; GENERAL INFORMATION:
; APPLICANT: Luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 4
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-4
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Query Match 84.0%; Score 1078; DB 19; Length 211;
Best Local Similarity 96.7%; Pred. No. 2.2e-100;
Matches 204; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 KFEKSAALLAARGPEELCTERLEEDLYCFEEAASAGVPGNFSFOLEDEPMKLCRL 60
Db 1 KFEKSAALLAARGPEELCTERLEEDLYCFEEAASAGVPGNFSFOLEDEPMKLCRL 60
QY 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVVLDPVGLVA 120
Db 61 HQAPTARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVVLDPVGLVA 120
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QY 121 RLADSGHVYIRWLPPEPTMTSHIRFELDLSGNGAGSVQVVELLEGRTCYLSMLRGR 180  
DB 121 RLADSGHVYIRWLPPEPTMTSHIRFELDLSGNGAGSVQVVELLEGRTCYLSMLRGR 180  
QY 181 TRTTFVAVRARMAPSPFGFWSAMSEPVSLLT 211  
DB 181 TRTTFVAVRARMAPSPFGFWSAMSEPVSLLT 211

## RESULT 5

US-09-502-984-9  
Sequence 9, Application US/09502984  
GENERAL INFORMATION:  
APPLICANT: Luo, Peizhi  
TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY  
FILE REFERENCE: A-68126-1/RET/RMS/RMK  
CURRENT APPLICATION NUMBER: US/09/502,984  
CURRENT FILING DATE: 2000-02-11  
PRIOR APPLICATION NUMBER: 60/120,009  
PRIOR FILING DATE: 1999-02-11  
PRIOR APPLICATION NUMBER: 60/131,674  
PRIOR FILING DATE: 1999-04-29  
NUMBER OF SEQ ID NOS: 36  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 9  
LENGTH: 211  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-502-984-9

Query Match 83.7%; Score 1075; DB 19; Length 211;  
Best Local Similarity 96.2%; Pred. No. 4, 5e-100;  
Matches 203; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1 KFSKALLAARGPBEILCFTERLEDVCFEFAASAGVPGNFSFQLEDEPMKICRL 60  
DB 1 KFSKALLAARGPBEILCFTERLEDVCFEFAASAGVPGNFSFQLEDEPMKICRL 60  
QY 61 HOAPFARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRYIHINEVLLDAPYGLVA 120  
DB 61 HOAPFARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRYIHINEVLLDAPYGLVA 120  
QY 121 RLADSGHVYIRWLPPEPTMTSHIRFELDLSGNGAGSVQVVELLEGRTCYLSMLRGR 180  
DB 121 RLADSGHVYIRWLPPEPTMTSHIRFELDLSGNGAGSVQVVELLEGRTCYLSMLRGR 180  
QY 181 TRTTFVAVRARMAPSPFGFWSAMSEPVSLLT 211  
DB 181 TRTTFVAVRARMAPSPFGFWSAMSEPVSLLT 211

## RESULT 6

US-09-502-984-13  
Sequence 13, Application US/09502984  
GENERAL INFORMATION:  
APPLICANT: Luo, Peizhi  
TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY  
FILE REFERENCE: A-68126-1/RET/RMS/RMK  
CURRENT APPLICATION NUMBER: US/09/502,984  
CURRENT FILING DATE: 2000-02-11  
PRIOR APPLICATION NUMBER: 60/120,009  
PRIOR FILING DATE: 1999-02-11  
PRIOR APPLICATION NUMBER: 60/131,674  
PRIOR FILING DATE: 1999-04-29  
NUMBER OF SEQ ID NOS: 36  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 13  
LENGTH: 211  
TYPE: PRT  
ORGANISM: Artificial Sequence

FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-502-984-13

Query Match 83.6%; Score 1073; DB 19; Length 211;  
Best Local Similarity 96.2%; Pred. No. 7, 2e-100;  
Matches 203; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1 KFSKALLAARGPBEILCFTERLEDVCFEFAASAGVPGNFSFQLEDEPMKICRL 60  
DB 1 KFSKALLAARGPBEILCFTERLEDVCFEFAASAGVPGNFSFQLEDEPMKICRL 60  
QY 61 HOAPFARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRYIHINEVLLDAPYGLVA 120  
DB 61 HOAPFARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRYIHINEVLLDAPYGLVA 120  
QY 121 RLADSGHVYIRWLPPEPTMTSHIRFELDLSGNGAGSVQVVELLEGRTCYLSMLRGR 180  
DB 121 RLADSGHVYIRWLPPEPTMTSHIRFELDLSGNGAGSVQVVELLEGRTCYLSMLRGR 180  
QY 181 TRTTFVAVRARMAPSPFGFWSAMSEPVSLLT 211  
DB 181 TRTTFVAVRARMAPSPFGFWSAMSEPVSLLT 211

## RESULT 7

US-09-502-984-14  
Sequence 14, Application US/09502984  
GENERAL INFORMATION:  
APPLICANT: Luo, Peizhi  
TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY  
FILE REFERENCE: A-68126-1/RET/RMS/RMK  
CURRENT APPLICATION NUMBER: US/09/502,984  
CURRENT FILING DATE: 2000-02-11  
PRIOR APPLICATION NUMBER: 60/120,009  
PRIOR FILING DATE: 1999-02-11  
PRIOR APPLICATION NUMBER: 60/131,674  
PRIOR FILING DATE: 1999-04-29  
NUMBER OF SEQ ID NOS: 36  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 14  
LENGTH: 211  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-502-984-14

Query Match 83.6%; Score 1073; DB 19; Length 211;  
Best Local Similarity 96.2%; Pred. No. 7, 2e-100;  
Matches 203; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1 KFSKALLAARGPBEILCFTERLEDVCFEFAASAGVPGNFSFQLEDEPMKICRL 60  
DB 1 KFSKALLAARGPBEILCFTERLEDVCFEFAASAGVPGNFSFQLEDEPMKICRL 60  
QY 61 HOAPFARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRYIHINEVLLDAPYGLVA 120  
DB 61 HOAPFARGAIRFWCSLPTADTSSFVPLELRLTAASGAPRFHRYIHINEVLLDAPYGLVA 120  
QY 121 RLADSGHVYIRWLPPEPTMTSHIRFELDLSGNGAGSVQVVELLEGRTCYLSMLRGR 180  
DB 121 RLADSGHVYIRWLPPEPTMTSHIRFELDLSGNGAGSVQVVELLEGRTCYLSMLRGR 180  
QY 181 TRTTFVAVRARMAPSPFGFWSAMSEPVSLLT 211  
DB 181 TRTTFVAVRARMAPSPFGFWSAMSEPVSLLT 211

## RESULT 8

US-09-502-984-15

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: Sequence 15 Application US/09502984
: GENERAL INFORMATION:
: APPLICANT: Luo, Peizhi
: TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
: FILE REFERENCE: A-68126-1/RTT/RMS/RMK
: CURRENT APPLICATION NUMBER: US/09/502,984
: CURRENT FILING DATE: 2000-02-11
: PRIOR APPLICATION NUMBER: 60/120,009
: PRIOR FILING DATE: 1999-02-11
: PRIOR APPLICATION NUMBER: 60/131,674
: PRIOR FILING DATE: 1999-04-29
: NUMBER OF SEQ ID NOS: 36
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 15
: LENGTH: 211
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-15

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|    | Query Match   | 83.6%  | Score 1073;         | DB 19;    | Length 211; |
|----|---|--------|---------------------|-----------|-------------|
|    | Best Local Similarity   | 96.2%; | Pred. No. 7.2e-100; |           |             |
|    | Matches 203; Conservative                                     | 6;     | Mismatches 2;       | Indels 0; | Gaps 0;     |
| QY | 1 KFESKALLAARGPELLCTFETLEDVLCFFEEASAGVGPNFSFSOLEDEPMKLCRL     | 60     |                     |           |             |
| Db | 1 KFESKALLAARGPELLCTFETLEDVLCFFEEASAGVGPNFSFSOLEDEPMKLCRL     | 60     |                     |           |             |
| QY | 61 HOAPTRAGAIRFWCSLPTADTSSFPVLRLTLAASGAPRHHVHINENVLLIDAVGLYA  | 120    |                     |           |             |
| Db | 61 HOAPTRAGAIRFWCSLPTADTSSFPVLRLTLAASGAPRHHVHINENVLLIDAVGLYA  | 120    |                     |           |             |
| QY | 121 RLADESGHVIRKWLPPPTPMTSHIRFELDISAGNAGSVORVELLEGRTECVLSNLNR | 180    |                     |           |             |
| Db | 121 RLADESGHVIRKWLPPPTPMTSHIRFELDISAGNAGSVORVELLEGRTECVLSNLNR | 180    |                     |           |             |
| QY | 181 TRITTAIVARAAAEPSFGGFWSMSPVSILTT                           | 211    |                     |           |             |
| Db | 181 TRYTFVARAAAEPSFGGFWSMSPVSILTT                             | 211    |                     |           |             |

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RESULT 9
US-09-502-984-7
Sequence 7, Application US/09502984
GENERAL INFORMATION:
APPLICANT: Luo, Peizhi
TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
FILE REFERENCE: A-68126-1/RTT/BMS/BMK
CURRENT APPLICATION NUMBER: US/09/502,984
CURRENT FILING DATE: 2000-02-11
PRIOR APPLICATION NUMBER: 60/120,009
PRIOR FILING DATE: 1999-02-11
PRIOR APPLICATION NUMBER: 60/131,674
PRIOR FILING DATE: 1999-04-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
LENGTH: 211
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-7

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|                           |       |  |           |             |
|---------------------------|-------|--|-----------|-------------|
| Query Match               | 83.3% | Score 1070;  | DB 19;    | Length 211; |
| Best Local Similarity     | 95.7% | Pred. NO. 1.5e-99;                                     |           |             |
| Matches 202; Conservative | 7;    | Mismatches 2;  | Indels 0; | Gaps 0;     |
| QY                        | 1     | KFESEAALLARGPELLCTFRLEDVLCFFEAASAGVGPONESFSFÖLEDEPKKCL | 60        |             |
|                           |       |  |           |             |

|    |     |   |     |
|----|-----|---|-----|
| Db | 1   | KFESAAALLIARGPEILLCTERLEDLVCWFMEEASASAVCGNGNSFSQLEDEDEPWKICRL | 60  |
| Qy | 61  | HOAPRAARAIKFWCSLPTADTSSFPYLELRILTAASGARFRHVRHINVELLDAPVGLYA   | 120 |
|    |     |   |     |
|    |     |   |     |
|    |     |   |     |
| Db | 61  | HOAPRAARAIKFWCSLPTADTSSFPYLELRILTAASGARFRHVRHINVELLDAPVGLYA   | 120 |
| Qy | 121 | RLADSSGHVYLRWLPPPTPMTSHIRFELDLSAGNGAGSVYORVELLEBETECVLSNLGR   | 180 |
|    |     |   |     |
|    |     |   |     |
|    |     |   |     |
| Db | 121 | RLADSSGHVYLRWLPPPTPMTSHIRFELDLSAGNGAGSVYORVELLEBETECVLSNLGR   | 180 |
| Qy | 181 | TRITIAVARARMAEPSPFGGFMASMEPEVLLT                              | 240 |
|    |     |   |     |
|    |     |   |     |
|    |     |   |     |
| Db | 181 | TRITIAVARARMAEPSPFGGFMASMEPEVLLT                              | 240 |

```

10 RESULT
11 US-09-502-984-17
12 Sequence 17, Application US/09502984
13 GENERAL INFORMATION:
14 APPLICANT: Luo, Peizhi
15 TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
16 FILE REFERENCE: A-68126-1/PFT/RMS/RMK
17 CURRENT APPLICATION NUMBER: US/09/502,984
18 CURRENT FILING DATE: 2000-02-11
19 PRIOR APPLICATION NUMBER: 60/120,009
20 PRIOR FILING DATE: 1999-02-11
21 PRIOR APPLICATION NUMBER: 60/131,674
22 PRIOR FILING DATE: 1999-04-29
23 NUMBER OF SEQ. ID NOS: 36
24 SOFTWARE: PatentIn Ver. 2.1
25 SEQ ID NO 17
26 LENGTH: 211
27 TYPE: PRT
28 ORGANISM: Artificial Sequence
29 FEATURE:
30 OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
31 US-09-502-984-17

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[illegible]

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RESULT 11
US-09-502-984-16
: Sequence 16, Application US/09502984
: GENERAL INFORMATION:
: APPLICANT: Luo, Peizhi
: TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
: FILE REFERENCE: A-68126-1/RFT/RMS/RMK
: CURRENT APPLICATION NUMBER: US/09/502,984
: CURRENT FILING DATE: 2000-02-11
: PRIOR APPLICATION NUMBER: 60/120,009
: PRIOR FILING DATE: 1999-02-11
: PRIOR APPLICATION NUMBER: 60/131,674
: PRIOR FILING DATE: 1999-04-29

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NUMBER OF SEQ ID NOS: 36  
SOFTWARE: Patentln Ver. 2.1  
SEQ ID NO 16  
LENGTH: 211  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-502-984-16

Query Match 83.0%; Score 1066; DB 19; Length 211;  
Best Local Similarity 93.8%; Pred. No. 3.7e-99;  
Matches 198; Conservative 12; Mismatches 1; Indels 0; Gaps 0;

QY 1 KESKAALLAARGPELLCFTERLEDVCFEEAASAGVGPNGFSFQLEDEPMKICRL 60  
DB 1 KESKAALLAARGPELLCFTERLEDVCFEEAASAGVGPNGFSFQLEDEPMKICRL 60  
QY 61 HOAPFARGAIRFWCSLPTADTSSFPVPLELRLTAASGAPRHHVHINEVVLDAVGLVA 120  
DB 61 HOAPFARGAIRFWCSLPTADTSSFPVPLELRLTAASGAPRHHVHINEVVLDAVGLVA 120  
QY 121 RLADSGHVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCEVLSNLGR 180  
DB 121 RLADSGHVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCEVLSNLGR 180  
QY 181 TRITIAVRARMAEPSPGFGWSAMSEPVSLT 211  
DB 181 TRITIAVRARMAEPSPGFGWSAMSEPVSLT 211

RESULT 12  
US-09-502-984-11  
Sequence 11, Application US/09502984  
GENERAL INFORMATION:  
APPLICANT: Luo, Peizhi  
TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY  
FILE REFERENCE: A-68126-1/RT/RMS/RMK  
CURRENT APPLICATION NUMBER: US/09/502,984  
CURRENT FILING DATE: 2000-02-11  
PRIOR APPLICATION NUMBER: 60/120,009  
PRIOR FILING DATE: 1999-02-11  
PRIOR APPLICATION NUMBER: 60/131,674  
PRIOR FILING DATE: 1999-04-29  
NUMBER OF SEQ ID NOS: 36  
SOFTWARE: Patentln Ver. 2.1  
SEQ ID NO 11  
LENGTH: 211  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-502-984-11

Query Match 82.9%; Score 1064; DB 19; Length 211;  
Best Local Similarity 94.3%; Pred. No. 5.9e-99;  
Matches 199; Conservative 10; Mismatches 2; Indels 0; Gaps 0;

QY 1 KESKAALLAARGPELLCFTERLEDVCFEEAASAGVGPNGFSFQLEDEPMKICRL 60  
DB 1 KESKAALLAARGPELLCFTERLEDVCFEEAASAGVGPNGFSFQLEDEPMKICRL 60  
QY 61 HOAPFARGAIRFWCSLPTADTSSFPVPLELRLTAASGAPRHHVHINEVVLDAVGLVA 120  
DB 61 HOAPFARGAIRFWCSLPTADTSSFPVPLELRLTAASGAPRHHVHINEVVLDAVGLVA 120  
QY 121 RLADSGHVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCEVLSNLGR 180  
DB 121 RLADSGHVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCEVLSNLGR 180  
QY 181 TRITIAVRARMAEPSPGFGWSAMSEPVSLT 211

DB 181 TRITIAVRARMAEPSPGFGWSAMSEPVSLT 211

RESULT 13  
US-09-502-984-12  
Sequence 12, Application US/09502984  
GENERAL INFORMATION:  
APPLICANT: Luo, Peizhi  
TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY  
FILE REFERENCE: A-68126-1/RT/RMS/RMK  
CURRENT APPLICATION NUMBER: US/09/502,984  
CURRENT FILING DATE: 2000-02-11  
PRIOR APPLICATION NUMBER: 60/120,009  
PRIOR FILING DATE: 1999-02-11  
PRIOR APPLICATION NUMBER: 60/131,674  
PRIOR FILING DATE: 1999-04-29  
NUMBER OF SEQ ID NOS: 36  
SOFTWARE: Patentln Ver. 2.1  
SEQ ID NO 12  
LENGTH: 211  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-502-984-12

Query Match 82.6%; Score 1061; DB 19; Length 211;  
Best Local Similarity 94.3%; Pred. No. 1.2e-98;  
Matches 199; Conservative 10; Mismatches 2; Indels 0; Gaps 0;

QY 1 KESKAALLAARGPELLCFTERLEDVCFEEAASAGVGPNGFSFQLEDEPMKICRL 60  
DB 1 KESKAALLAARGPELLCFTERLEDVCFEEAASAGVGPNGFSFQLEDEPMKICRL 60  
QY 61 HOAPFARGAIRFWCSLPTADTSSFPVPLELRLTAASGAPRHHVHINEVVLDAVGLVA 120  
DB 61 HOAPFARGAIRFWCSLPTADTSSFPVPLELRLTAASGAPRHHVHINEVVLDAVGLVA 120  
QY 121 RLADSGHVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCEVLSNLGR 180  
DB 121 RLADSGHVIRWLPPEPTPMTSHIRFELDISAGNGAGSVORVELLEGRTCEVLSNLGR 180  
QY 181 TRITIAVRARMAEPSPGFGWSAMSEPVSLT 211  
DB 181 TRITIAVRARMAEPSPGFGWSAMSEPVSLT 211

RESULT 14  
US-09-502-984-2  
Sequence 2, Application US/09502984  
GENERAL INFORMATION:  
APPLICANT: Luo, Peizhi  
TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY  
FILE REFERENCE: A-68126-1/RT/RMS/RMK  
CURRENT APPLICATION NUMBER: US/09/502,984  
CURRENT FILING DATE: 2000-02-11  
PRIOR APPLICATION NUMBER: 60/120,009  
PRIOR FILING DATE: 1999-02-11  
PRIOR APPLICATION NUMBER: 60/131,674  
PRIOR FILING DATE: 1999-04-29  
NUMBER OF SEQ ID NOS: 36  
SOFTWARE: Patentln Ver. 2.1  
SEQ ID NO 2  
LENGTH: 211  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-502-984-2

Query Match 82.6%; Score 1060; DB 19; Length 211;  
Best Local Similarity 93.8%; Pred. No. 1.5e-98;

Matches 198; Conservative 11; Mismatches 2; Indels 0; Gaps 0;

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QY 1 KFSKAAALLAARGPEELCTERLEDLYCFEEBAASAGVPGNFSFQLEDEPMKLCRL 60
    |||||
DB 1 KFSKAAALLAARGPEELCTERLEDLYCFWEBAASAGVPGNYSFYQLEDEPMKLCRL 60
    |||||
QY 61 HQAPFARGAIRFCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVYLLDAPVGLVA 120
    |||||
DB 61 HQAPFARGAIRFCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVYLLDAPVGLVA 120
    |||||
QY 121 RLADSGHVYIRLPPPEPMTSHIRFELDLSAGNGAGSVQRYELLEGRTECVLSNLGR 180
    |||||
DB 121 RLADSGHVYIRLPPPEPMTSHIRFELDLSAGNGAGSVQRYELLEGRTECVLSNLGR 180
    |||||
QY 181 TRITIAVRARMAEPSEFGFWSANSEPVSLT 211
    |||||
DB 181 TRITIAVRARMAEPSEFGFWSANSEPVSLT 211
    |||||
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## RESULT 15

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US-09-502-984-10
; Sequence 10, Application US/09502984
; GENERAL INFORMATION:
; APPLICANT: luo, Peizhi
; TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
; FILE REFERENCE: A-68126-1/RT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/502,984
; CURRENT FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/120,009
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/131,674
; PRIOR FILING DATE: 1999-04-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-502-984-10
```

Query Match 82.6%; Score 1060; DB 19; Length 211;  
Best Local Similarity 93.8%; Pred. No. 1.5e-98;

Matches 198; Conservative 11; Mismatches 2; Indels 0; Gaps 0;

```
QY 1 KFSKAAALLAARGPEELCTERLEDLYCFEEBAASAGVPGNFSFQLEDEPMKLCRL 60
    |||||
DB 1 KFSKAAALLAARGPEELCTERLEDLYCFWEBAASAGVPGNYSFYQLEDEPMKLCRL 60
    |||||
QY 61 HQAPFARGAIRFCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVYLLDAPVGLVA 120
    |||||
DB 61 HQAPFARGAIRFCSLPTADTSSFVPLELRLTAASGAPRHRVYIHINEVYLLDAPVGLVA 120
    |||||
QY 121 RLADSGHVYIRLPPPEPMTSHIRFELDLSAGNGAGSVQRYELLEGRTECVLSNLGR 180
    |||||
DB 121 RLADSGHVYIRLPPPEPMTSHIRFELDLSAGNGAGSVQRYELLEGRTECVLSNLGR 180
    |||||
QY 181 TRITIAVRARMAEPSEFGFWSANSEPVSLT 211
    |||||
DB 181 TRITIAVRARMAEPSEFGFWSANSEPVSLT 211
    |||||
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Search completed: August 28, 2002, 17:37:39  
Job time: 515 sec